

PUMPABLE FLOORING SYSTEM FOR USE IN DOMESTIC, COMMERCIAL AND INDUSTRIAL BUILDINGS.

PRODUCT DESCRIPTION

CEMFORT 220 is a pumpable self-smoothing screed formulated from High Alumina Cement, aggregates, supplementary binders and chemical admixtures. It is a pre-blended dry powder, designed for use in domestic, commercial and industrial buildings.

APPLICATIONS

CEMFORT 220 is designed for use as a thin levelling screed. It can be used as a subfloor for carpets or tiles. CEMFORT 220 can be applied with an automatic continuous mixer pump (without mortar hopper). Application at thickness between 2 and 30 mm in one operation. Under normal conditions foot-step traffic onto the floor is possible after 1-2 hours and the final heavy loading after 1 week depending on local conditions.

SUBFLOOR

CEMFORT 220 should be laid on a well prepared subfloor. Dust, laitance, grease or other weak materials must be removed. Normal thickness is 6 - 10 mm, but the material can be laid up to 25 - 30 mm in one operation. The flowability in the material is very good and gives a smooth surface ready for carpeting. Falls to water outlet may be maintained by use of a reduced amount of water and then pumping from higher to lower end. The semi-hardened material may be easily formed or cut allowing any necessary adjustments to be made.

TECHNICAL DATA

Water volume 18 % - 50 % R.H. - temperature during processing 20 ° C

Flexural Strength:	6,5 N/mm ² after 28 days
Compressive Strength:	30 N/mm ² after 28 days
Adhesion to subfloor:	> 3 N/mm ²
VOC-value:	free from ammonia and formaldehyde
Particle size:	max 1 mm
Free shrinkage:	< 0,5 ‰ measured at 50% RH
pH-value:	approx. 11,5
Flowability (Flow ring test SS 923519 (diam.50x23mm) :	150 - 155 mm
Water stability:	water stable, (expansion under water < free shrinkage)
Material consumption:	approx. 1,75 kg per mm thickness/m ²

PROCESSING DATA (at 20 °)

Water admixture:	18 % (4,5 litre / 25 kg bag)
Min floor temperature:	+6°C
Dry powder Density:	approx. 1,6 g / cm ³
Wet density:	> 2 g / cm ³
Open time:	approx. 15 minutes depending on temperature
Curing time:	1 - 2 hours for foot traffic 24 hours for light traffic 1 week for full loading
Storage:	6 months in dry conditions,max. 20°C and 50 % RH

PERFORMANCE**Preparation of subfloor:**

The surface to be treated must be hard, sound and free from surface contamination, all dust should be vacuumed from the surface. Concrete laitance and old coatings should be removed mechanically e.g. by shot blasting, scabbling or scarifying. Concrete contaminated by oil or grease may require flame gunning and/or treatment with a proper degreaser.
Apply CEMPRIME on the subfloor.

Mixing:

CEMFORT 220 can be mixed in an automatic continuous mixer pump (without mortar hopper). Use only clean potable water with a max. temperature of +20°C at a rate of 4,5 liter per 25 kg bag. The mixed material should be used within 15 minutes.

Cleaning:

All tools and equipment should be cleaned promptly with water.

Application:

Door threshold, stairs, drains and gullies should be isolated with foam barrier strips. Larger areas should be divided into bays. Normal width of the bay is 8 -12 meters, depending on the pump capacity.

Health and safety:

Hazardous - contains cement, cement moist is corrosive. Protect eyes and prevent prolonged skin contact, keep out of reach of children.
For further information refer to Health and Safety data sheet.

LABELLING**Health and safety:**

Hazardous, contains cement, quarts sand.

Transportation:

Not a classified product

GENERAL:

The general information provided in the present technical description, application guidelines and other recommendations, is based on research and experience. However, the client is obliged to determine himself whether the products are suitable for use. The characteristics given here are average values, obtained at 20°C and 50 RH, and were drawn up according to the current state of technology. As of publication, the present technical descriptions will replace all previous ones.

Please take into account different local conditions such as ventilation, floor temperature and humidity.
Do not process at temperatures below +5° C.
High humidity and low temperatures slow down the constriction and the curing.
Do not add other products.